



## ملخص

## كيمياء عضوية ( 10 )

لطلاب السنة التحضيرية بجامعة الملك خالد  
بأبها – المحالة

2015

عمل تطوعي طلابي

لا تنسى زيارة المدونة <http://kku-a.blogspot.com>

و نشر المدونة بين الطلاب لتعم الفائدة

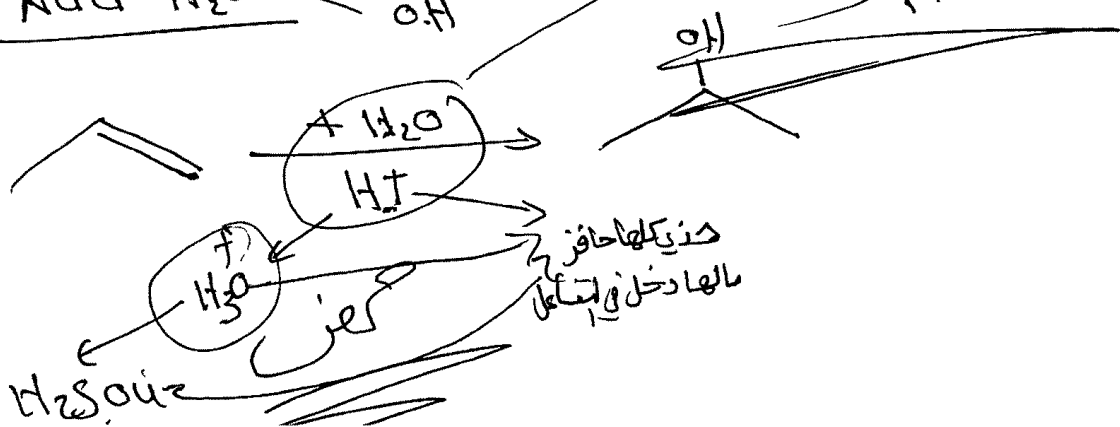
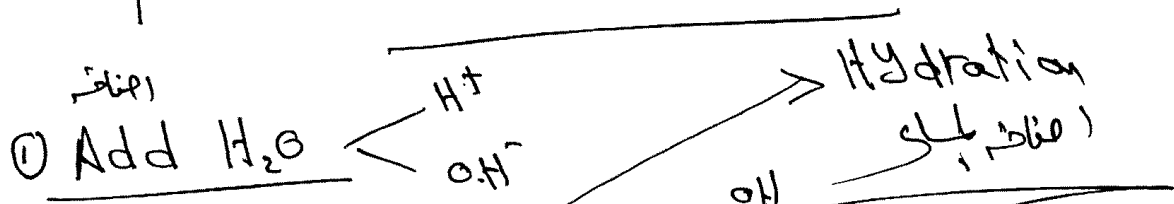
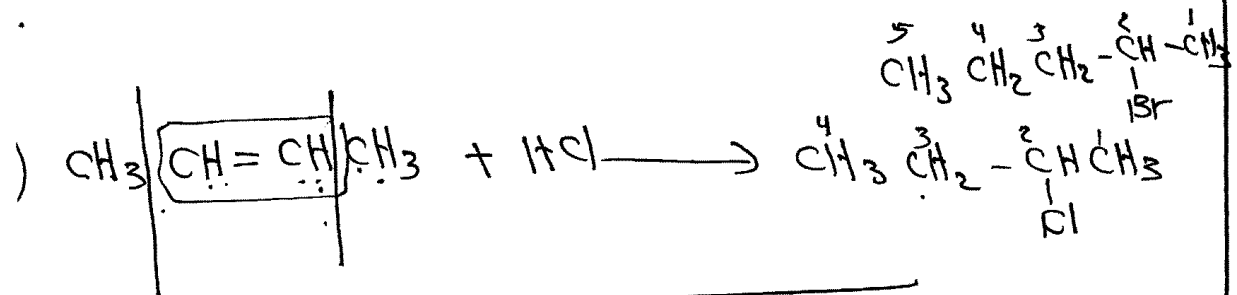
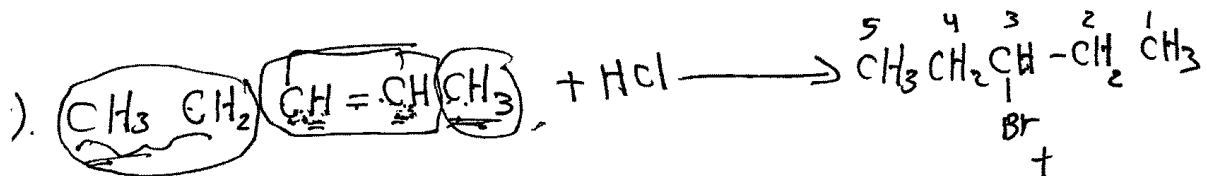
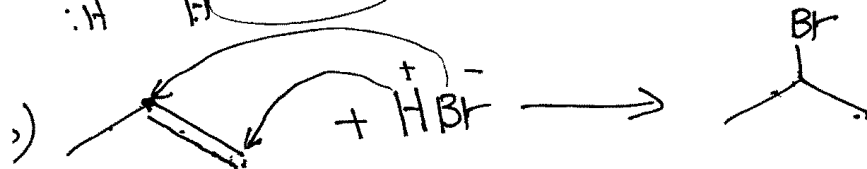
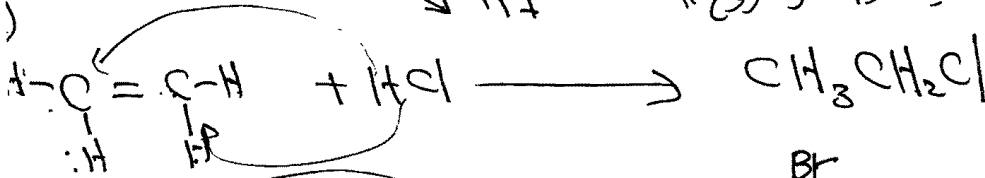
Reactions (14) 2-4

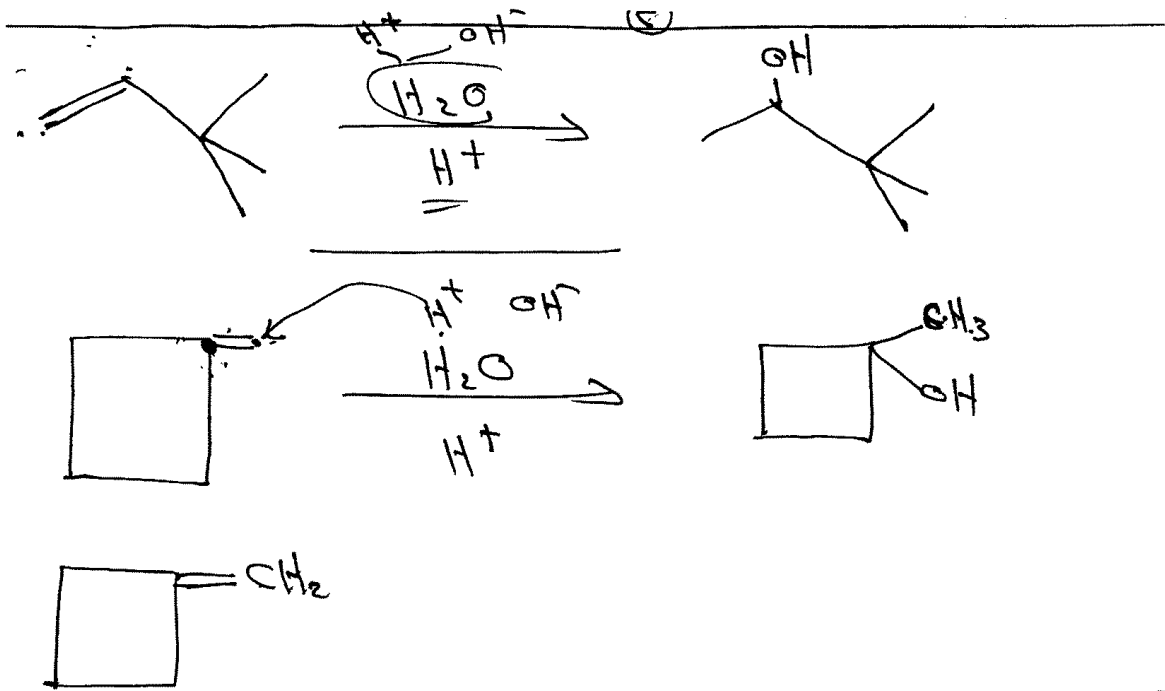
Alkenes reacting with electrophilic substitution

الألكينات تتفاعل بالاضافة الألكتروفيلية

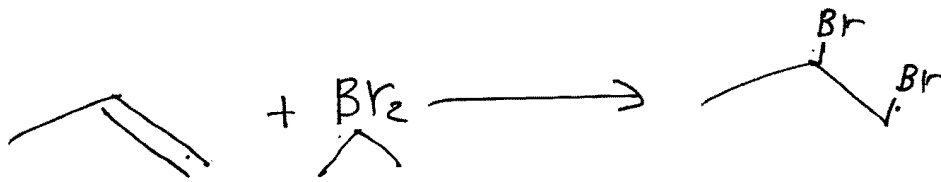


\* في هذه التفاعلات  
الرابطة  $\pi$  "باي" لازم تكسر وتروح

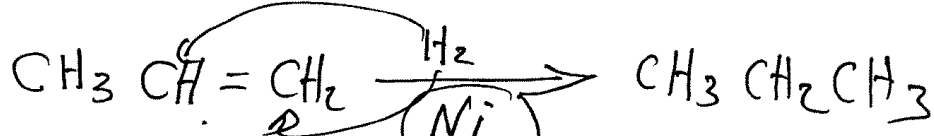
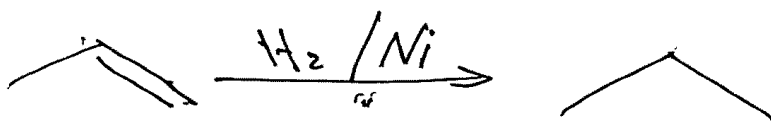




Add  $X_2$   $\begin{cases} \text{Cl}_2 \\ \text{Br}_2 \end{cases}$



~~CC(C)(Br)C(Br)C~~      Add  $H_2$       Hydrogenation  
الهيدروجنة

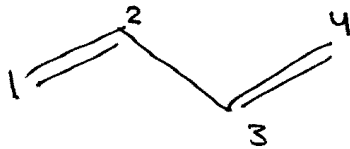


Cat Test



## Dienes

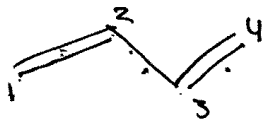
هه مركبات تحتوي على رابطتين ثنائيتين



1,3-Butadiene

### تقسيم الدياتات

① Conjugated متباعدة



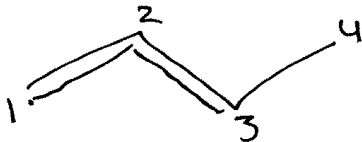
1,3-Butadiene

② nonconjugated معزولة (Isolated) غير متباعدة



1,4-Pentadiene

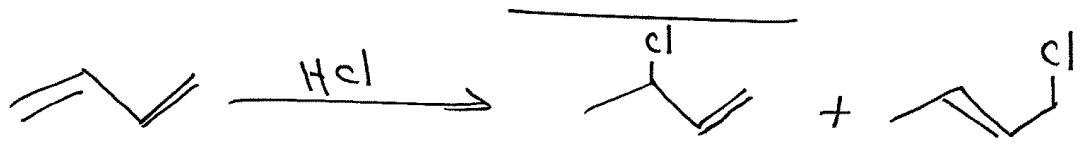
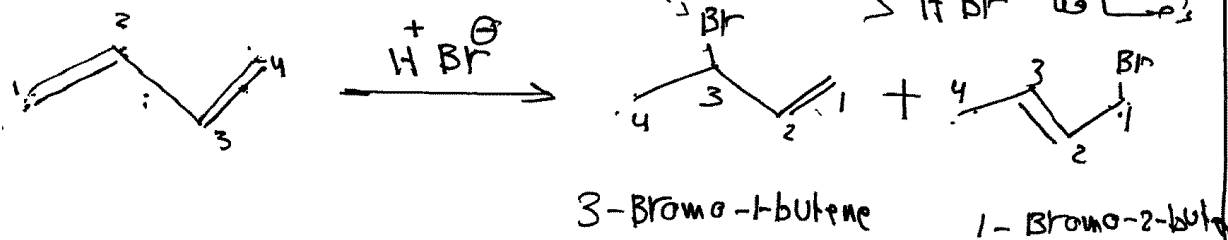
③ Cumulated متباعدة



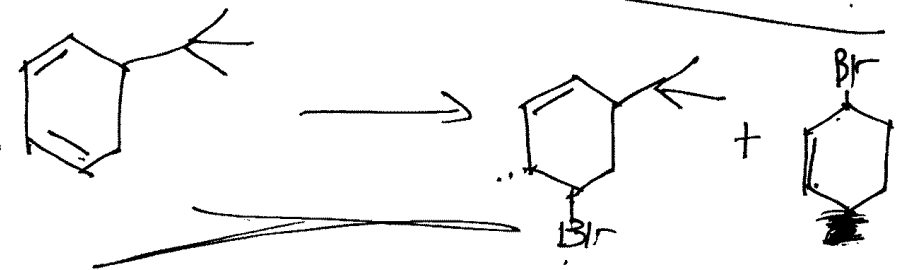
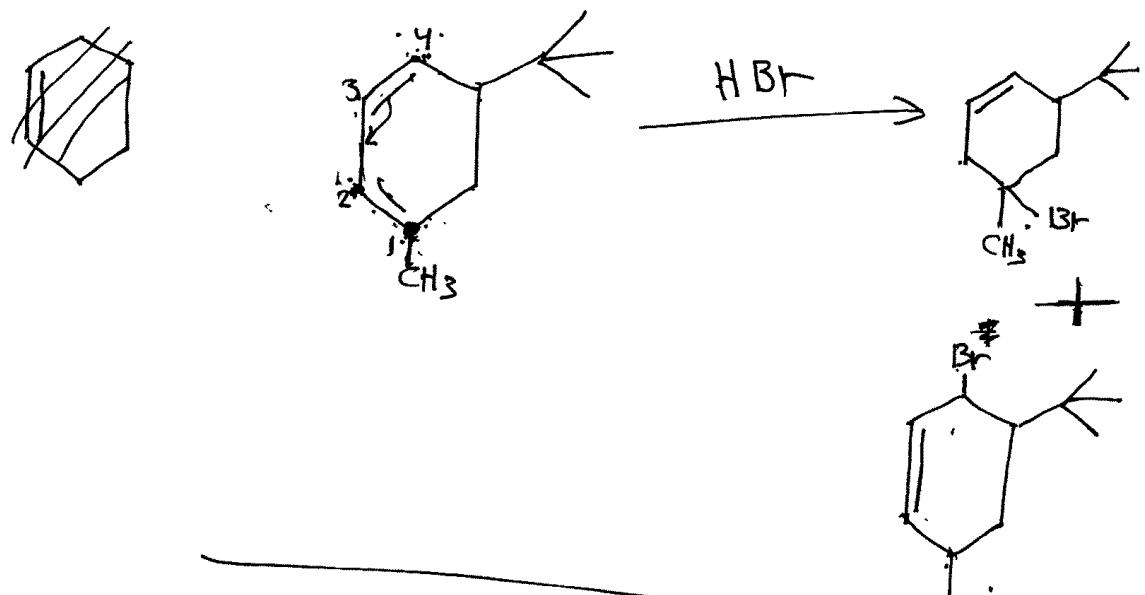
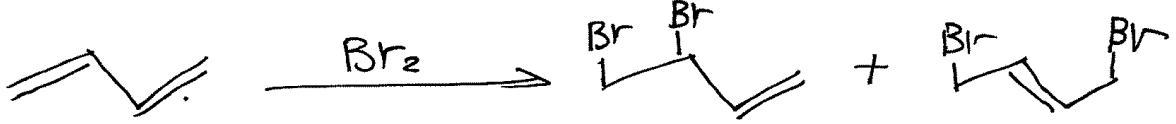
1,2-Butadiene

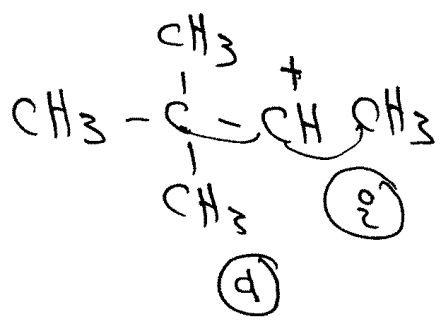
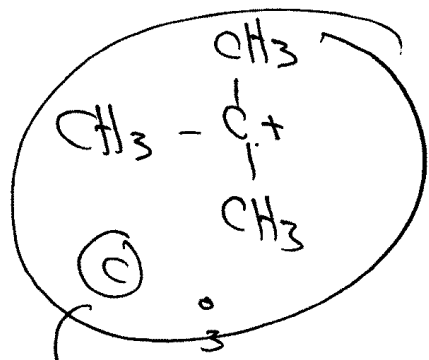
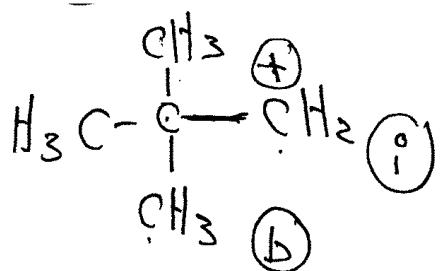
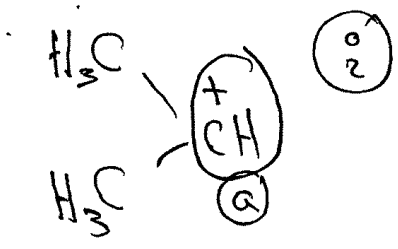


Reactions [1,4] + [1,2] تم الاضافة على



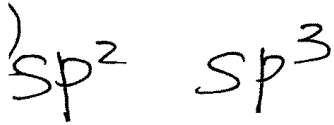
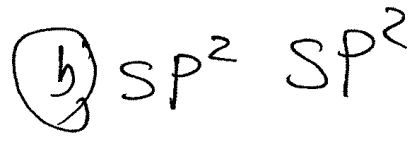
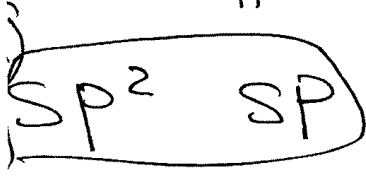
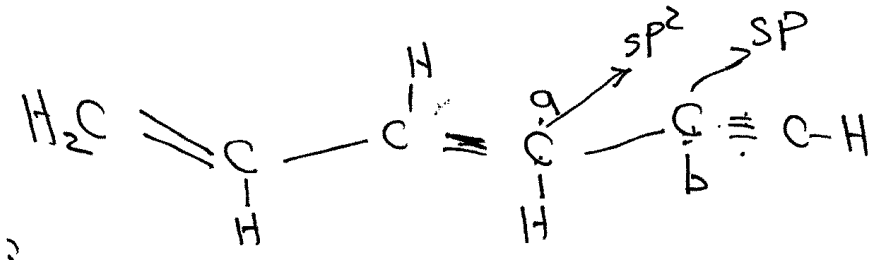
Add Br<sub>2</sub>

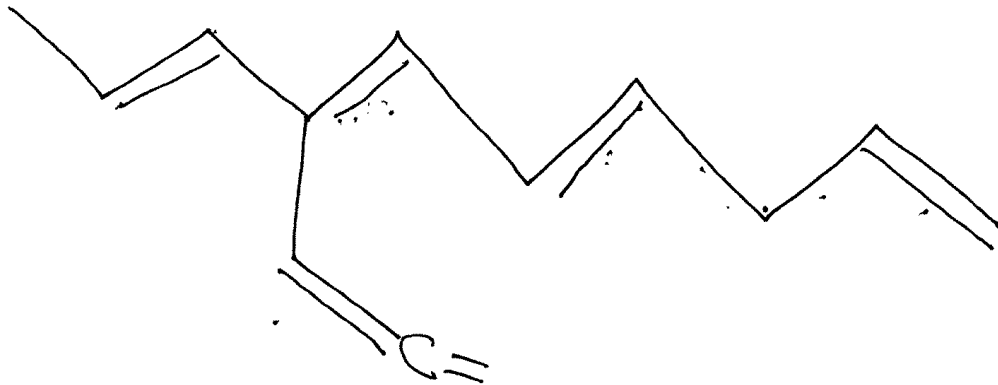




ما الأكثر استقراراً  
 what is the most stable

in the compound which is shown what are  
 the overlapped orbitals

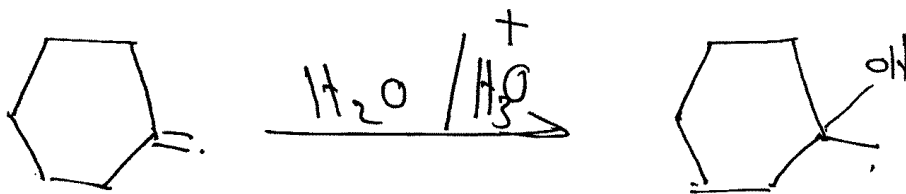


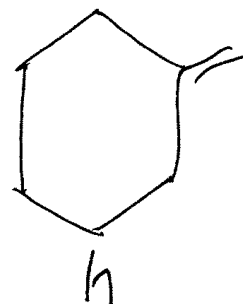
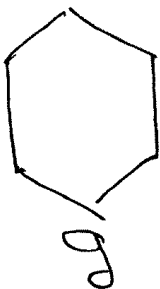
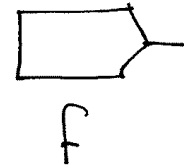
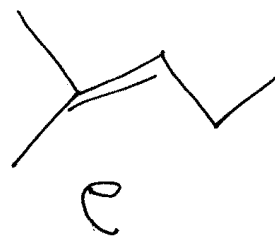
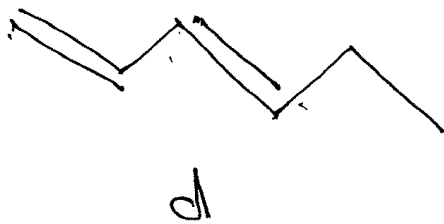
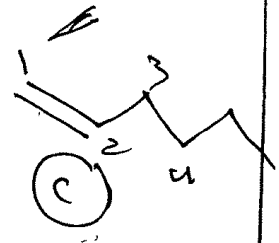
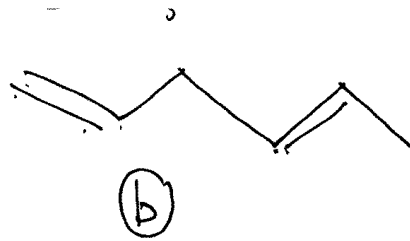
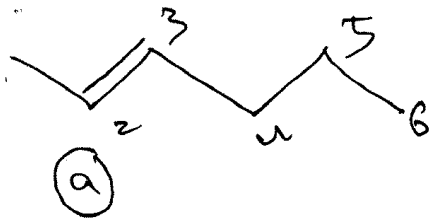


in the compound which is shown how many  
conjugated double bonds

كم زوج تائب متباد

3





Which pairs of the above compounds represents positional isomers?

أي الأزواج من المركبات تقع في المراتب المختلفة؟

a) a and c

b) c and g

c) e and f

d) a and e





ملاحظة  
الدرجات التي فيك يتم الاضافه على  
1,2  
+  
1,4  
المتبداه